

1 1. (Twice Amended) A method for programming a mobile telephone over the air
2 within a mobile telephone communication network, said mobile telephone communication network
3 includes an over-the-air function, a customer service center, a mobile switching center, a base
4 station controller, and a plurality of base transceiver stations, said method comprising the steps of:

5 establishing a communication path between a mobile telephone and the over-the-air
6 function, wherein the communication path includes an over the air path between said mobile
7 telephone and one of said plurality of base transceiver stations;

8 sending a request from the over-the-air function to said mobile telephone via the
9 communication path to interrogate said mobile telephone's operating capabilities;

10 [in response to a detection of said request,] receiving a protocol capability response message
11 from said mobile telephone [responding] via the communication path [to] by the over-the-air
12 function [with a protocol capability response message] that describes the band and mode
13 capabilities of said mobile telephone;

14 the over-the-air function determining operational parameters for said mobile telephone
15 based upon the band and mode capabilities of said mobile telephone, wherein the operational
16 parameters include a preferred roaming list and a number assignment module indicator block; and

17 the over-the air function communicating the operational parameters to said mobile
18 telephone via the communication path; and

19 said mobile telephone subsequently operating according to the operational parameters.]

1 3. (Twice Amended) The method according to Claim 1, wherein the [operational
2 parameters include a] preferred roaming list and [a] the number assignment module indicator

3 block are communicated to [that were selected by the over-the-air function based upon the band
B3 4 and mode capabilities of] said mobile telephone in separate messages.

1 9. (Twice Amended) A mobile telephone communication system for programming a
2 mobile telephone over the air within a mobile telephone communication network, said mobile
3 telephone communication network includes an over-the-air function, a customer service center, a
4 mobile switching center, a base station controller, and a plurality of base transceiver stations, said
B3 5 mobile telephone communication system comprising:

6 means for establishing a communication path between a mobile telephone and the over-the-
7 air function, wherein the communication path includes an over the air path between said mobile
8 telephone and one of said plurality of base transceiver stations;

9 means for sending a request from the over-the-air function to said mobile telephone via the
10 communication path to interrogate said mobile telephone's operating capabilities;

11 means for receiving a protocol capability response message from said mobile telephone
12 responding via the communication path [to] by the over-the-air function [with a protocol capability
13 response message] that describes the band and mode capabilities of said mobile telephone;

14 means for the over-the-air function determining operational parameters for said mobile
15 telephone based upon the band and mode capabilities of said mobile telephone, wherein the
16 operational parameters include a preferred roaming list and a number assignment module
17 indicator block; and

18 means for the over-the air function communicating the operational parameters to said
19 mobile telephone via the communication path.; and

B3²⁰ means for said mobile telephone subsequently operating according to the operational
21 parameters.]

B4² 11. (Twice Amended) The mobile telephone communication system according to
3 Claim 9, wherein the [operational parameters include a] preferred roaming list and [a] the number
4 assignment module indicator block are communicated to [that were selected by the over-the-air
5 function based upon the band and mode capabilities of] said mobile telephone in separate
messages.

1 17. (Twice Amended) A mobile telephone for operating within a mobile telephone
2 communication network, said mobile telephone communication network includes an over-the-air
3 function, a customer service center, a mobile switching center, a base station controller, and a
4 plurality of base transceiver stations, said mobile telephone comprising:

B5⁵ means for establishing a communication path with the over-the-air function, wherein the
6 communication path includes an over the air path between said mobile telephone and one of said
7 plurality of base transceiver stations;

8 means for receiving a request from the over-the-air function to said mobile telephone via the
9 communication path to interrogate said mobile telephone's operating capabilities;

10 means for responding via the communication path to the over-the-air function with a
11 protocol capability response message that describes the band and mode capabilities of said mobile
12 telephone;

13 means for receiving operational parameters from the over-the-air function via the

14 communication path, wherein the operational parameters are based upon the band and mode
15 capabilities of said mobile telephone as reported in the protocol capability response message and
B5 16 include a preferred roaming list and a number assignment module indicator block; and
17 means for subsequently operating said mobile telephone according to the operational
18 parameters received from the over-the-air function.

1 21. (Amended) The mobile telephone according to Claim 17, wherein the [operational
B6 2 parameters include a] preferred roaming list and [a] the number assignment module indicator
3 block are communicated to [that were selected by the over-the-air function based upon the band
4 and mode capabilities of] said mobile telephone in separate messages.

1 24. (Amended) A method [of] for operating a mobile telephone within a mobile
2 telephone communication network, said mobile telephone communication network includes an
B7 3 over-the-air function, a customer service center, a mobile switching center, a base station controller,
4 and a plurality of base transceiver stations, said method comprising the steps of:
5 establishing a communication path with the over-the-air function, wherein the
6 communication path includes an over the air path between said mobile telephone and one of said
7 plurality of base transceiver stations;
8 receiving a request from the over-the-air function to said mobile telephone via the
9 communication path to interrogate said mobile telephone's operating capabilities;
10 responding via the communication path to the over-the-air function with a protocol
11 capability response message that describes the band and mode capabilities of said mobile telephone; ✓